Springdale Public Schools
PreAP Biology-Integrated Unit 4

Title of Unit	Meiosis and Chromosomal Basis of Inheritance	**Grade Level**	9
Subject	Accelerated Biology	**Time Frame**	
Developed By	SPS Science	**Date Modified**	8/16/2021

Identify Desired Results

Standards Covered in this Unit
(Evidence statements are LINKED from the standard number. Evidence statements assist in clarifying outcomes)

ABI-LS3-1 Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring. [AR Assessment Boundary: Assessment does include the phases of meiosis or the biochemical mechanism of specific steps in the process.]

ABI-LS3-2 Make and defend a claim based on evidence that inheritable genetic variations may result from: (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors. [Clarification Statement: Emphasis is on using data to support arguments for the way variation occurs.] [Assessment Boundary: Assessment does not include the phases of meiosis or the biochemical mechanism of specific steps in the process.]

ABI-LS3-3 Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population. [Clarification Statement: Emphasis is on the use of mathematics to describe the probability of traits as it relates to genetic and environmental factors in the expression of traits.]

Learning Outcomes for the Unit
What relevant goals will this unit address? These must come from the standards.

-

Key Vocabulary for the Unit

Enduring Understandings for the Unit (for discussion within science and across content areas)

-

Essential Questions for the Unit

-

Misunderstandings That Will Be Addressed

-

Content Literacy Skills for the Unit (Interpretation of data, experimental design, SEPs, CCs) [minimum list]

-

Assessment Evidence

What type(s) of Common Formative Assessment (CFA) will be given?

What type of District Formative Assessment will be given?

Two of the CFAs will be collected for analysis of the unit process. They will be indicated below.

Overview of All Choices of Lessons for Unit

This is not a lesson plan!.

Standard(s) #	Formative Assessment(s) (Indicate which is the CFA)	Main Instructional Strategy	Activity/Activities
HS-LS1-7	self assessment	**interactive quiz**	Cellular Respiration Question Practice

Common Resources	
Title and Description of Usage	**Location**
This is an option for a lab notebook that is virtual.	Blank Digital Lab Notebook
This is a lesson plan template that pairs with the Unit plan. It allows for easy information transfer.	Lesson Plan Template